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Paolo Baronti, Prashant Pillai, Vince W. C. Chook, Stefano Chessa, Alberto Gotta, Y. Fun Hu

May 2007 **Computer Communications**, Volume 30 Issue 7

Publisher: Butterworth-Heinemann

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 38

Wireless sensor networks are an emerging technology for low-cost, unattended monitoring of a wide range of environments. Their importance has been enforced by the recent delivery of the IEEE 802.15.4 standard for the physical and MAC layers and the forthcoming ...

**Keywords:** IEEE 802.15.4, Wireless sensor networks, ZigBee**2** [A spontaneous ad hoc network to share WWW access](#)

Raquel Lacuesta, Jaime Lloret, Miguel Garcia, Lourdes Peñalver

April 2010 **EURASIP Journal on Wireless Communications and Networking**, Volume 2010

Publisher: Hindawi Publishing Corp.

Full text available: [Publisher Site](#), [PDF \(1.09 MB\)](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 3, Downloads (Overall): 3, Citation Count: 0

In this paper, we propose a secure spontaneous ad-hoc network, based on direct peer-to-peer interaction, to grant a quick, easy, and secure access to the users to surf the Web. The paper shows the description of our proposal, the procedure of the nodes ...

**3** Probabilistic quorum systems in wireless Ad Hoc networks

 Roy Friedman, Gabriel Kliot, Chen Avin

September 2010

**Transactions on Computer Systems (TOCS)**, Volume 28 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.16 MB)

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 185, Downloads (Overall): 185, Citation Count: 0

Quorums are a basic construct in solving many fundamental distributed computing problems. One of the known ways of making quorums scalable and efficient is by weakening their intersection guarantee to being probabilistic. This article explores several ...

**Keywords:** Distributed middleware, location service, quorums systems, random walks, wireless ad hoc networks

**4** A simple mechanism for capturing and replaying wireless channels

 Glenn Judd, Peter Steenkiste

August 2005

**E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (6.06 MB)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 247, Downloads (Overall): 2448, Citation Count: 4

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

**Keywords:** channel capture, emulation, wireless

**5** Scalability and performance evaluation of hierarchical hybrid wireless networks

 Suli Zhao, Dipankar Raychaudhuri

October 2009

**IEEE/ACM Transactions on Networking (TON)**, Volume 17 Issue 5

Publisher: IEEE Press  [Request Permissions](#)

Full text available:  [Pdf](#) (1.17 MB)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 125, Downloads (Overall): 183, Citation Count: 0

This paper considers the problem of scaling ad hoc wireless networks now being applied to urban mesh and sensor network scenarios. Previous results have shown that the inherent scaling problems of a multihop "flat" ad hoc wireless network can be improved ...

**Keywords:** ad hoc network, hierarchical wireless network, hybrid network, mesh network, multihop routing, performance analysis, scalability, sensor network, simulation models

**6** [RaWMS - Random Walk Based Lightweight Membership Service for Wireless Ad Hoc Networks](#)

 [Ziv Bar-Yossef, Roy Friedman, Gabriel Kliot](#)

June 2008 [Transactions on Computer Systems \(TOCS\)](#), Volume 26 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(2.03 MB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 118, Downloads (Overall): 524, Citation Count: 8

This article presents RaWMS, a novel lightweight random membership service for ad hoc networks. The service provides each node with a partial uniformly chosen view of network nodes. Such a membership service is useful, for example, in data dissemination ...

**Keywords:** Ad hoc networks, membership service, random walk

**7** [Research Direction for Developing an Infrastructure for Mobile & Wireless Systems: Consensus Report of the NSF Workshop Held on October 15, 2001 in Scottsdale, Arizona](#)

[Birgitta König-Ries, Kia Makki, S. A. M. Makki, Charles E. Perkins, Niki Pissinou, Peter L. Reiher, Peter Scheuermann, Jari Veijalainen, Alexander L. Wolf, Ouri Wolfson](#)

October [IMWS '01: Revised Papers from the NSF Workshop on Developing an Infrastructure for Mobile and Wireless Systems 2001](#)

Publisher: Springer-Verlag

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

**8** [Dynamic task-based anycasting in mobile ad hoc networks](#)

[Prithwish Basu, Wang Ke, Thomas D. C. Little](#)

October 2003 [Mobile Networks and Applications](#), Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf \(518.68 KB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 38, Downloads (Overall): 1043, Citation Count: 3

Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community ...

**Keywords:** anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

**9** [Persistent personal names for globally connected mobile devices](#)

[Bryan Ford, Jacob Strauss, Chris Lesniewski-Laas, Sean Rhea, Frans Kaashoek, Robert Morris](#)

November [OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation 2006](#)

Publisher: USENIX Association

Full text available:  [Pdf \(1.16 MB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 48, Downloads (Overall): 181, Citation Count: 9

The *Unmanaged Internet Architecture* (UIA) provides zero-configuration connectivity among mobile devices through *personal names*. Users assign personal names through an ad hoc device introduction process requiring no central allocation. Once ...

10 [Overload traffic management for sensor networks](#)

 Chieh-Yih Wan, Shane B. Eisenman, Andrew T. Campbell, Jon Crowcroft

October 2007 [\*\*Transactions on Sensor Networks \(TOSN\)\*\*](#), Volume 3 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (611.90 KB)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 114, Downloads (Overall): 1161, Citation Count: 6

There is a critical need for new thinking regarding overload traffic management in sensor networks. It has now become clear that experimental sensor networks (e.g., mote networks) and their applications commonly experience periods of persistent congestion ...

**Keywords:** Simulations, system design, testbeds

11 [Experimental evaluation of topology control and synchronization for in-building sensor network applications](#)

 W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy

August 2005 [\*\*Mobile Networks and Applications\*\*](#), Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (2.31 MB)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 35, Downloads (Overall): 286, Citation Count: 1

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several ...

**Keywords:** energy conservation, performance evaluation, synchronization, topology control, wireless sensor networks

12 [Programming pervasive and mobile computing applications: The TOTA approach](#)

 Marco Mamei, Franco Zambonelli

July 2009 [\*\*Transactions on Software Engineering and Methodology \(TOSEM\)\*\*](#), Volume 18 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (5.06 MB)

**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 358, Downloads (Overall): 688, Citation Count: 5

Pervasive and mobile computing call for suitable middleware and programming models to support the activities of complex software systems in dynamic network environments. In this article we present TOTA ("Tuples On The Air"), a novel middleware ...

**Keywords:** Pervasive computing, coordination, middleware, mobile computing, self-adaptation, self-organization, tuple spaces

13 [Secure incentives for commercial ad dissemination in vehicular networks](#)

 [Suk-Bok Lee, Gabriel Pan, Joon-Sang Park, Mario Gerla, Songwu Lu](#)

September 2007 [\*\*MobiHoc '07: Proceedings of the 8th ACM international symposium on Mobile ad hoc networking and computing\*\*](#)

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(586.96 KB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 98, Downloads (Overall): 852, Citation Count: 15

Vehicular ad hoc networks (VANETs) are envisioned to provide us with numerous interesting services in the near future. One of the most promising applications is the dissemination of commercial advertisements via car-to-car communication. However, due ...

**Keywords:** cooperation, incentives, security, vehicular ad hoc networks

14 [A framework for supporting emergency messages in wireless patient monitoring](#)

[Upkar Varshney](#)

November 2008 [\*\*Decision Support Systems\*\*](#), Volume 45 Issue 4

Publisher: Elsevier Science Publishers B. V.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

Patient monitoring is becoming a requirement for offering a better healthcare to an increasing number of patients in nursing homes and hospitals. During the monitoring, vital signs of patients could fluctuate significantly and/or match certain undesirable ...

**Keywords:** Ad hoc networks, Patient monitoring, Performance evaluation, Wireless systems

15 [Ubiquitous computing for remote cardiac patient monitoring: a survey](#)

[Sunil Kumar, Kashyap Kambhatla, Fei Hu, Mark Lifson, Yang Xiao](#)

January 2008 [\*\*International Journal of Telemedicine and Applications\*\*](#), Volume 2008

Publisher: Hindawi Publishing Corp.

Full text available:  [Pdf \(1.10 MB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 149, Downloads (Overall): 369, Citation Count: 4

New wireless technologies, such as wireless LAN and sensor networks, for telecardiology purposes give new possibilities for monitoring vital parameters with wearable biomedical sensors, and give patients the freedom to be mobile and still be under continuous ...

16 [Manycast: exploring the space between anycast and multicast in ad hoc networks](#)

 [Casey Carter, Seung Yi, Prashant Ratanchandani, Robin Kravets](#)

September 2003 [MobiCom '03: Proceedings of the 9th annual international conference on Mobile computing and networking](#)

Publisher: ACM 

Full text available:  [Pdf \(170.59 KB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 39, Downloads (Overall): 1415, Citation Count: 11

The characteristics of ad hoc networks naturally encourage the deployment of distributed services. Although current networks implement group communication methods, they do not support the needs of a mobile node that must locate one or more distributed ...

**Keywords:** ad hoc routing, manycast, service location

17 [Stochastic Geometry and Wireless Networks: Volume II Applications](#)

 [François Baccelli, Bartłomiej Blaszczyszyn](#)

January 2009 [Foundations and Trends® in Networking](#), Volume 4 Issue 1-2

Publisher: Now Publishers Inc.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

This volume bears on wireless network modeling and performance analysis. The aim is to show how stochastic geometry can be used in a more or less systematic way to analyze the phenomena that arise in this context. It first focuses on medium access control ...

18 [Experimental evaluation of synchronization and topology control for in-building sensor network applications](#)

 [W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy](#)

September 2003 [WSNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications](#)

Publisher: ACM 

Full text available:  [Pdf \(1.24 MB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 88, Downloads (Overall): 1732, Citation Count: 9

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several ...

**Keywords:** synchronization, topology control, wireless sensor networks

19 [Communications of the ACM: Volume 52 Issue 11](#)

 November 2009 [Communications of the ACM](#)

Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf \(6.64 MB\)](#)

**Bibliometrics:** Downloads (6 Weeks): 59, Downloads (12 Months): 59, Downloads (Overall): 59, Citation Count: 0

20 [An economics-based negotiation scheme among mobile devices in mobile grid](#)

[Li Chunlin, Li Layuan](#)

March 2011      **Computer Standards & Interfaces**, Volume 33 Issue 3

Publisher: Elsevier Science Publishers B. V.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In this paper, we propose an economics-based distributed negotiation scheme among mobile devices in mobile grid. In our model, there are energy negotiation and transactions between buyer devices and seller devices. Dynamic allocation of energy resources ...

**Keywords:** Energy allocation, Mobile grid, Negotiation

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